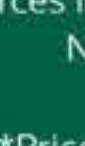


| | Name | Abstract | Minimal charge PLN* | Minimal charge EUR** |
|-----|---|--|---------------------|----------------------|
| 1. | Animal Production - Co-design of Digital Solutions | Animal Production - Co-design of Digital Solutions. | 66 038,00 zł | 15 783,84 € |
| 2. | Animal Production - Co-design of Robots | Provide support for co-designing robots for slaughterhouses, e.g. automatic stunning of livestock. | 66 038,00 zł | 15 783,84 € |
| 3. | AI-Testfield - Co-design Robots | Provide support for co-designing robots for high-value crops, e.g. vineyards. | 70 755,00 zł | 16 911,26 € |
| 4. | AI-Testfield - Co-design Tooling | Provide support for co-designing tools, e.g., image analysis tool for anomaly detection for vineyards | 70 755,00 zł | 16 911,26 € |
| 5. | AI-Testfield - demonstration | Provide a local AI-Testfield to product demonstration | 200 472,50 zł | 47 915,22 € |
| 6. | AI-Testfield -development | Provide a local AI-Testfield to develop and test autonomus robots and AI-based systems. | 212 265,00 zł | 50 733,77 € |
| 7. | AI-Testfield - model Improvement/adaptation | Provide support for improving existing models/algorithms/software through on-field data acquisition and online learning, e.g., for crop protection against diseases and pests. | 49 528,50 zł | 11 837,88 € |
| 8. | Datasets - Real-World Training | Provide, i.e., capture real-world training data sets incl. labels and metadata for training AI algorithms. | 141 510,00 zł | 33 822,51 € |
| 9. | High Value Crops - field tests - demonstration | Provide local Testfield for high-value crops to demonstrate autonomous robots and AI-based systems. | 188 680,00 zł | 45 096,68 € |
| 10. | High Value Crops - field tests - development | Provide local testfield for high-value crops to develop and test autonomious robots and AI-based systems. | 200 472,50 zł | 47 915,22 € |
| 11. | Physical Edge - HW Benchmark | Provide a benchmark suite of edge computation devices and sensors and their combinations. | 23 585,00 zł | 5 637,09 € |
| 12. | Physical Testing - endurance & reliability | Provide physical tests to assess endurance and reliability. | 70 755,00 zł | 16 911,26 € |
| 13. | Conformity assessment and safety tests | Verification of the prototype for the comprehensive assessment of the safety of machines, devices, and components in the agri-food industry, including the safety of conducting research and field trials. This involves risk analysis and compliance with essential requirements derived from the New Legal Framework and other EU regulations aimed at enhancing protection for both consumers and specialists against hazardous products entering the European internal market. The objective is to support manufacturers in legally introducing agri-food products to the EU single market and in the CE marking process. | 70 755,00 zł | 16 911,26 € |
| 14. | Physical Testing - performance/qualification | Provide physical tests for performance qualification, e.g. quality of the final work and work performance. | 70 755,00 zł | 16 911,26 € |
| 15. | Physical Testing - platonization/collaboration | Provide physical tests for small and medium robotic machines working in platooning/collaboration mode. | 70 755,00 zł | 16 911,26 € |
| 16. | Test execution services | Provide task-specific test (e.g. weeding) of system components: perception (sensing), planning/detection (learning module) and Actuators. | 70 755,00 zł | 16 911,26 € |
| 17. | Usability & UX testing | Provide usability and user experience (UX) evaluation on autonomus robots and AI-based systems. | 165 095,00 zł | 39 459,60 € |
| 18. | UAV-Testfield - demonstration | Provide a local UAV-Testfield to product demonstration. | 188 680,00 zł | 45 096,68 € |
| 19. | UAV-Testfield - development | Provide a local UAV-Testfield to develop and test autonomus robots and AI-based systems. | 200 472,50 zł | 47 915,22 € |
| 20. | AI Integration - model improvement/adaptation | Support for improving existing models/algorithms/software with on-field data acquisition, e.g. on-field data weed detection and biomass estimation. | 53 773,80 zł | 12 852,55 € |
| 21. | AI Integration - algorithms | Provide support for the integration of AI algorithms in agro-food systems/machines. | 113 208,00 zł | 27 058,01 € |
| 22. | AI Integration - campaign design | Provide support for feasibility studies focused on designing aneffective AI benchmarking campaign in the field. | 94 340,00 zł | 22 548,34 € |
| 23. | AI Integration - Computing Power | Provide data storage infrastructure for AI, simulations and data processing results. | 21 226,50 zł | 5 073,38 € |
| 24. | AI Integration - field characteristics | Assist in developing a field characteristic systems for arable crops. | 62 736,10 zł | 14 994,65 € |
| 25. | AI Integration - predictive system | Assist in developing a predictive system for e.g. arable crops. | 264 152,00 zł | 63 135,35 € |
| 26. | AI-Testfield - performance and sustainability | Provide performance qualifications of systems focusing on sustainability measurements, e.g. energy consuption by hectare and amount of fertilizer and herbicide by hectare. | 117 925,00 zł | 28 185,43 € |
| 27. | Datasets - real-time, on-farm data stream provisioning | Provide access to a real-time data stream generated on the farm, e.g. for detection of weeds and diseases by UAV's, video streams of pigs behaviour, spray boom images, etc. | 30 641,00 zł | 7 323,55 € |
| 28. | Datasets - annotation/merging/consolidation | Provide annotation and consolidation of existing data sets. Ensuring the combination of several datasets as a resulting dataset. | 30 641,00 zł | 7 323,55 € |
| 29. | Datasets - benchmark | Provide benchmark training data sets incl. labels and metadata for benchmarking AI algorithms by the target groups. | 235 850,00 zł | 56 370,85 € |
| 30. | Datasets - hybrid training | Provide hybrid datasets, i.e. hybrid training data sets incl. labels and metadata for training AI algorithms. | 35 377,50 zł | 8 455,63 € |
| 31. | Datasets - provision/archiving | Provide qualified databases with access to Cloud, data set quality metrics and interoperability standards. | 56 604,00 zł | 13 529,00 € |
| 32. | Datasets - synthetic training | Provide synthetic datasets, i.e. generate training datasets with synthetic data incl. labels and metadata for training AI algorithms. | 23 585,00 zł | 5 637,02 € |
| 33. | High-Value-Testfield - Usability/UX | Provide usability and user experience (UX) evaluation on AI-based tools for high-value crops, e.g. vineyards. | 23 585,00 zł | 5 637,02 € |
| 34. | Robotic Integration - algorithms | Provide support for the integration of autonomous robots in agrofood domains/subdomains. | 132 076,00 zł | 31 567,68 € |
| 35. | Testing - cybersecurity | Provide pre-certification testing of the cybersecurity of AI products by, e.g. pentests and vulnerability scans. | 196 793,24 zł | 47 035,84 € |
| 36. | Virtual Edge - HW Benchmark | Provide virtual computing appliances and virtual sensors to simulate and evaluate edge device combinations. | 35 377,50 zł | 8 455,63 € |
| 37. | Virtual testing on a dataset | Provide virtual performance testing based on test datasets. | 249 784,02 zł | 59 701,24 € |
| 38. | Virtual testing on simulator | Provide virtual performance testing of software (SW) and hardware (HW) based on simulations and digital twins. | 358 397,66 zł | 85 661,14 € |
| 39. | AI-Testfield - certification | Provide a local AI-Testfield for certifying autonomous robots and AI-based systems. | 259 435,00 zł | 62 007,94 € |
| 40. | Certification data sets | Provide certifying training datasets incl. labels and metadata for evaluation of AI algorithms by certification institutes. | 188 680,00 zł | 45 096,68 € |
| 41. | Test of safety devices | Provide assessments and rewards regarding the current ISO 18387 and OECD standards in agricultural robotics/AI. | 117 925,00 zł | 28 185,43 € |
| 42. | UAV-Testfield - certification | Provide a local UAV-Testfield for certifying autonomous robots and AI-based systems. | 259 435,00 zł | 62 007,94 € |
| 43. | Robotic Integration - campaign design | Provide support for feasibility studies involving the design of a proper field robot benchmarking campaign. | 94 340,00 zł | 22 548,34 € |
| 44. | Datasets - image processing | Exploitation of LIVING LAB resources including data acquisition with embedded cameras on robot (ground and UAV). | 283 020,00 zł | 67 645,02 € |
| 45. | AI Integration - data storage | Provide data storage infrastructure for AI, simulations and data processing results. | 6 226,44 zł | 1 448,19 € |
| 46. | AI Integration - V-Server/PaaS/ AI platform | Provide virtual infrastructure Cloud Virtual Servers/PaaS/ AI Platform to support deployment of the models/tools/ software stack. | 8 490,60 zł | 2 029,35 € |
| 47. | Testing of error handling, failure monitoring and safety realted to cyber threats | Provide specialized testing for AI and robotic systems, focusing on error handling, failure monitoring, and cybersecurity threat assessments. | 61 279,00 zł | 14 646,38 € |
| 48. | Policy Lab | Provide a comprehensive analysis of the compliance of the company's innovations with applicable regulations and identification of possible deficiencies in regulations. | 30 016,81 zł | 7 174,36€ |
| 49. | Virtual training for crops, livestock and food processing | Training acquired from previously acquired datasets (either models by Agrifood TEF as a separate service or provided by the client) including datasets, validating the quality and impact of the datasets on the artificial intelligence algorithm. | 30 641,00 zł | 7 323,55 € |
| 50. | Test design - definition of the test environment | Items to be defined include: crops; weeds; growth stage for each; type and conditions of soil; preferred environmental features to provide optimal adaptation to specific needs. | 31 446,67 zł | 7 516,11 € |
| 51. | Test design - definition of the test protocol | Items to be defined included: test phases, operations, personnel involvement, duration, scheduling of operations, ranges of environmental and temporal variability, and the required number of test repetitions. | 31 446,67 zł | 7 516,11 € |
| 52. | Test design - definition of the test evaluation | Items to be defined are the quantitative and/or qualitative performance metrics (which in turn pose requirements on input data and ground truth) to be applied to test results. | 31 446,67 zł | 7 516,11 € |
| 53. | Testbed preparation | Within the service we provide a general and technical support before testing of AI machines. It includes a lot of elements such as: a) preparation of flat/ slopped arable land; b) preparation of permanent flat grasslands; c) preparation of land in "controlled rain conditions"/ preparation of dump ground; d) providing and preparation of apary; e) Providing a sprinkler for software testing. The service can be executed in fields with various area with system of weather stations, phenological stations and ICT infrastructure. There is a possibility to run the test on cultivated/non-cultivated fields and on test plots specially designed for testing. Within the latter such elements like: - soil preparation, - seed/plant procurement, - seeding/planting, - plant growth management, - preparation of technical infrastructure to ensure optimal conditions for conducting and monitoring tests. Activities conducted within the framework of tests cannot affect the yield/harvest levels. | 50 118,13 zł | 11 978,81 € |
| 54. | LCA assessments | Within the service we provide a full life cycle environmental assessment analysis for products/processes/services. The LCA analysis gathers all essential inventory data dedicated to acquisition of natural raw materials, emission of undesirable substances into the environment and consumption of fuel and electricity. The LCA shows the impact of a product on a number of environmental impact categories like climate change, stratospheric ozone depletion, ionizing radiation, fine particulate matter formation, photochemical ozone formation, terrestrial acidification, freshwater eutrophication, marine eutrophication, human toxicity, ecotoxicity, water use, land use, mineral resource scarcity and fossil resource scarcity. | 60 000,00 zł | 14 340,69 € |
| 55. | Data validation and processing services | Validation of collected datasets (e.g. check for presence of all datastreams, check for drop-outs, check for focus or exposure of camera images). Preparation for performance evaluation (e.g. formatting, identification of the images containing selected visual markers; association between images from the system under test and the ground truth). | 30 641,00 zł | 7 323,55 € |
| 56. | Technology advancement and readiness assessment | This service provides a comprehensive evaluation of technology solution to determine its current state and future potential. | 23 550,00 zł | 5 628,72 € |
| 57. | Data modelling - AIM | Support adopt and use the standard-based semantic data models for agriculture AIM, identifying relevant concepts and relations, and extend/adapt them to specific needs, e.g. creating pilot/ application extension modules. | 7 536,00 zł | 1 801,19 € |
| 58. | Data harmonization | Support data harmonization and integration process, i.e. process and transform source data into a standard common format (e.g. AIM) which requires specification and implementation of mappings between data source model and target model (e.g. AIM), the integration with other standard-based data sources (establishing links between data elements), and providing interfaces to access the harmonized data. | 9 299,14 zł | 2 222,60 € |
| 59. | Conformity assessment and compliance tests | Provide examination and measurement of various parameters, including mechanical, physical, acoustic, radio, electromagnetic compatibility, and electrical parameters, to assess the overall safety of using agricultural, horticultural, forestry, and food industry machines, electronic devices, and components. Verification is based on the standards and directives declared by the manufacturer. We conduct preliminary assessments based on the provided design documentation and/or measurements performed on the prototype according to harmonized and non-harmonized standards with relevant EU and sectoral regulations. This aims to ensure compliance with essential requirements arising from directives of the New Legislative Framework and other EU regulations to better protect both consumers and specialists from dangerous products introduced to the European internal market. One of the goals is to assist manufacturers in legally introducing agri-food products to the EU single market and in the CE marking process. The obtained results can be used in the further process of product labeling, declaration of conformity to place the CE mark on the device in terms of EMC, LVD, RED, MD, MR, and other directives and regulations of the New Legal Framework (NLF). | 40 000,00 zł | 9 560,46 € |
| 60. | Security starter initial cybersecurity assessment | Initial cybersecurity assessment. | 2 000,00 zł | 478,02 € |
| 61. | Cybersecurity - conducting a vulnerability scan in digital/ robotic systems | Provide conducting a vulnerability scan in autonomous robots/ AI based systems. | 15 000,00 zł | 3 585,17 € |
| 62. | Support for testing safety devices for safe obstacle avoidance by autonomous vehicles | Provide the development of a testing methodology for autonomous vehicles in compliance with ISO 18497 standards for agricultural robotics and AI. This service includes support for testing autonomous vehicles to ensure adherence to safety protocols for autonomous obstacle detection and stopping. The testing process will validate the functionality of control systems responsible for maintaining the autonomous operation of the tested devices. | 19 500,00 zł | 4 660,72 € |
| 63. | Support for testing safety devices for autonomous vehicles to properly maintain a preset trajectory | Provide the development of a testing methodology for autonomous vehicles in compliance with ISO 18497 standards for agricultural robotics and AI. This service includes support for testing autonomous vehicles to ensure adherence to safety protocols for autonomous path tracking. The testing process will validate the functionality of control systems responsible for maintaining the autonomous operation of the tested devices in terms of their navigation. | 25 800,00 zł | 6 166,50 € |
| 64. | Datasets - benchmark results evaluation | Provide evaluation of the use of reference data - training datasets incl. labels and metadata for benchmarking AI algorithms. | 20 000,00 zł | 4 780,23 € |
| 65. | Datasets - benchmark data adjusments | Provide customization of reference data, metadata, ontology used, or the set of reference objects for validation purposes. | 35 000,00 zł | 8 365,40 € |
| 66. | Initial Legal assesment | Provide initial audit of the solution and advice on the implementation of the AI Act, primarily aimed at providers and users of AI systems, including general-purpose AI models and the roles of distributors and importers. Additionally, the service includes one-time legal consultations regarding obligations arising from the AI Act. | 2 000,00 zł | 478,02 € |
| 67. | Datasets - benchmark data execution | Provide customized preparation of reference data, metadata, ontology used, or the set of reference objects for validation purposes. | 40 000,00 zł | 9 560,46 € |

*The minimum charge represents the initial price within the basic scope of the service. It may vary depending on the scope, specificity of activities, duration, and resources involved. For qualified SMEs, the service fee is covered by the European Commission (EC) and the National Centre for Research and Development (NCBR, Poland).

**Price in EUR estimated based on the NBP exchange rate as of 31.03.2025



European Funds
For Smart Economy



Republic
of Poland

Co-funded by the
European Union

